MULTI-DISC CD PLAYER



5-Disc CD Player

DCM290P*

This **5-Disc CD Player** is capable of loading and removing discs without interrupting play. Plays audio CDs as well as CD-R/RW discs with MP3 and WMA files. A rack mounting kit is included.

Product Features:

- 5-Disc CD changer
- Load or remove discs without interrupting play mode
- Stereo output via analog RCA jacks and digital output via coaxial and optical jacks
- Program up to 32 tracks from up to five separate discs
- MP3 and WMA decoders
- Infrared remote control
- 3-mode random playback *(full random, program random, disc sequential random)*
- Includes rack mount kit *(3 rack spaces)*
- UL and C-UL listed

Power Requirements:	120V AC
Dimensions:	17-1/8" W x 4-3/4" H x 15-3/4" D (without Rack Kit)
Product Weight:	13 lb.

**This product is not covered by Bogen Limited Warranty. Please contact Customer Service for warranty information on this product.*

Output Connections

The DCM290P provides separate stereo outputs via analog RCA connectors and digital optical and coaxial connectors.

MP3/WMA Decoders

MP3/WMA decoders play finalized CD-R/RW discs containing MP3 or WMA audio files. A single CD-R/RW disc can contain up to 10 times more tracks than an ordinary audio CD. Installations requiring long-play background music are excellent applications for CD-R/RW discs containing a large number of MP3 files.

Playback Modes

Audio track selection can be configured in a variety of ways for playback. Tracks can be played back sequentially or randomly, manually or programmed (up to 32 tracks) from any one or up to five loaded discs. Random playback functions include random playback of tracks from one, all or programmed tracks from the loaded discs. Once all tracks are played back in random order, "repeat playback" plays back the same selected tracks in a different random order.

Intelligent Disc Scan

When using the remote control, the disc skip button rotates the carousel tray clockwise or counterclockwise when searching for a disc for faster playback.

AM/FM TUNER

TP30D



The **TP30D** is a compact, commercial-grade AM/FM tuner for background music applications. The 18 FM and 12 AM station presets can be automatically scanned to make finding a desired station quick and easy. Stations are tuned using push-button controls and the backlit LCD display.

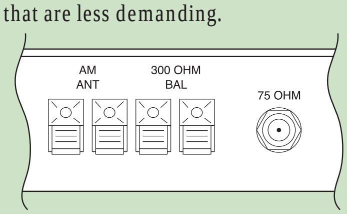
Product Features:

- Provides background music on paging systems and MOH for telephone systems
- PLL-synthesized tuning for drift-free operation
- Push-button controls
- Large, easy-to-read backlit LCD station frequency display (orange)
- 18 FM and 12 AM station presets
- Automatic scanning of station presets
- Stereo or mono operation
- Excellent sensitivity, image rejection and frequency response
- Precise tuning and superior signal quality
- Low hum, low noise, low distortion
- 75-ohm and 300-ohm antenna connectors
- Includes FM dipole antenna and AM loop
- Heavy-duty, commercial-grade construction
- Rack-mountable (1 rack space) with an accessory mounting kit
- Output cables included
- UL and C-UL listed

Power Requirements:	120V AC
Dimensions:	10-1/2" W x 1-5/8" H x 7-1/8" D
Product Weight:	6 lb.

Antenna Connections

Anyone who has installed a tuner inside an industrial building knows that radio signals don't penetrate too far into these steel-laced structures. Because the TP30D is designed for industrial installations, it contains inputs for both external 300-ohm (twin line) and 75-ohm (coaxial) antenna feeds. The 75-ohm input uses an "f" connector and is ideal for receiving feeds from antenna distribution systems or cable systems. For convenience, the TP30D also provides a built-in antenna that uses the AC line cord as its antenna for those situations that are less demanding.



Whether sitting on a shelf or mounted in a rack, the TP30D is a great choice for an industrial-grade tuner.

Accessories



RPK46A
Rack Mount Kit

AM/FM 35-WATT RECEIVER



RM350D

The **RM350D** is a unique self-contained paging system with an AM/FM tuner, providing 35 watts of paging power. A low-impedance, balanced microphone input is provided for microphone paging announcements or telephone paging when used with an accessory transformer (WMT1A). A music-only output can feed announcement-free background music to other equipment or to a telephone music-on-hold input.

Product Features:

- 35-Watt amplifier for 4- to 8-ohm, 25V, or 70V speaker systems
- Built-in AM/FM tuner
- 18 FM and 12 AM station presets
- PLL-synthesized tuning for drift-free operation
- 2 inputs: 1 MIC *(Lo-Z)*, 1 AUX *(Hi-Z)*
- Four speaker zone switches allow paging in up to four different areas, any combination, or All-Call
- Single button control for All-Call
- Tuner/AUX selector switch
- Auxiliary input for external music sources
- Automatic muting of background music during pages *(voice-activated)*
- Music mute optionally controlled with external contact closure *(N.O. or N.C.)*
- Automatic Level Control of microphone announcements assures excellent intelligibility
- Separate controls for music, volume, bass, treble, and microphone input for paging announcements
- Music-only output unaffected by volume or tone controls
- Push-button tuner controls
- Large, easy-to-read, backlit LCD station frequency display *(orange)*
- FM dipole antennas included
- Compact, heavy-duty, commercial-grade construction
- Rack-mountable with accessory mounting kit
- Stereo-to-mono AUX input cables included
- UL and C-UL listed

Power Requirements:	120V AC
Dimensions:	12" W x 3-1/2" H x 8-1/2" D
Product Weight:	13 lb.

Rear Panel



AUX Input - Can accept signal from a CD Player, or other line-level source.

Automatic Level Control Switch - Switch controls the ALC circuit. When ON, the ALC will maintain a uniform output level between microphone users.

Antenna Connections - Connections for 300-ohm, 75-ohm coax, or for AM loop antenna.

Microphone XLR Input - Accepts a balanced, Lo-Z microphone.

Pre-Page Output - Output contains tuner or auxiliary program material, but no paging. For use as telephone on-hold music source. The output is independent of the tone and volume controls.

Impedance Selector - An impedance jumper is provided to set the output signal on the zone taps.

Tape/Boost Output - Tape recorder connection or feed to another amplifier.

Speaker Outputs & Zones - Provides for connection of 70V, 25V, and 4- and 8-ohm speakers in up to 4 speaker zones.

Paging Input Details

The RM350D is oftentimes installed in retail locations for supplying background music alone, but it has a full-featured microphone paging input that makes it ideal for more demanding installations. The microphone input is a low-impedance balanced input that works with dynamic microphones. Whenever a page is made, the background music is muted. This can be done in two ways: 1) audio activity on the MIC input, or 2) a switch contact closure. For enhanced flexibility, the RM350D can be set to respond to either a normally open or normally closed switch contact. The DDU250 and MBS1000A *(see page 58)* are perfect desktop microphones for this application since they each have a push-to-talk function.

By using a WMT1A matching transformer, the MIC input can be connected to the paging port of a telephone system. The audio-activated mute function of the RM350D will cause the background music to mute whenever a page is made. In addition, this input also has automatic level control (ALC), which controls how loud a page can be and ensures that people with loud voices don't boom over the paging system.

Music-On-Hold Source

The RM350D lets you make the most of your paging/background music system. A Pre-Page output connector on the rear of the unit supplies only the background music without any of the paging announcements. Connect this output to the telephone system's music-on-hold input and callers will enjoy the background music too. The Pre-Page output will supply either the tuner or AUX program material depending on the setting of the AUX/Tuner button.

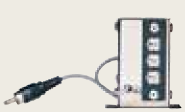
Speaker Zones

Built into the RM350D is a convenient 4-zone selector switch group. These push-on/push-off switches allow you to control how paging is distributed throughout a facility. Simply turn on and off groups of speakers as needs change. An "ALL" button is also provided to turn on all system speakers, overriding any individual setting.

Accessories



RPK47
Rack Mount Kit
(2 rack spaces)



WMT1A
Matching Transformer

CD PLAYER & AM/FM RECEIVER

CDR1



The **CDR1** is a combination CD Player and AM/FM Receiver, providing reliable, economic background music for sound systems.

Product Features:

- Single Disc CD Player & AM/FM Receiver
- Stereo & Mono signal out
- 1W minimum, @ 8-ohms stereo output
- Adjustable loudness contour
- 12- or 24-hour time display
- AUX input via 1/8" stereo jack
- Pluggable screw terminal connector for antenna & speaker wiring
- Rack-mountable *(2 rack spaces)* w/ accessory mounting kit
- External power supply *(UL and C-UL listed)* included

Power Requirements:	12V DC/3A
Dimensions:	7-1/4" W x 2-1/8" H x 9-1/4" D
Product Weight:	4 lb.

CD Player:
- Plays CD, CD-R, and CD-RW discs
- Browse, Repeat, Random Play, and Pause functions

Receiver:
- 30 Station presets: 5 selectable bands (3 FM and 2 AM) can be programmed with 6 stations each
- Manual Tuner, Auto Seek, and Preset Scan features
- Pluggable screw terminal inputs for AM loop and FM dipole antennas
- F-Type connector for coaxial 75-ohm antenna

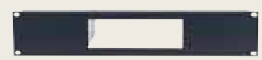
Space Saving

The CDR1 is an excellent choice for supplying background music to a paging system. It incorporates a full-featured receiver and CD player in an extremely compact size. When rack-mounted using the optional mounting kit, the CDR1 fits in 2 rack spaces.

Dual Outputs

A unique feature of the CDR1 is its dual outputs. Since it is designed for paging systems, a set of signal level RCA outputs is available on the rear of the unit. These outputs can feed the music or AUX inputs of a paging system directly. But the CDR1 also contains a pair of 1-watt outputs that can drive 8-ohm speakers directly. These outputs provide a convenient way to supply local music or to monitor the receiver tuning, without the need to run paging speakers into the equipment room.

Accessories



RK78
Rack Mount Kit

FM RADIO RECEIVER



FMR

This economical **FM Radio Receiver** provides background music *(BGM)* to paging systems or music-on-hold *(MOH)* to telephone systems.

Product Features:

- Automatic Frequency Control prevents signal drift
- LED indicator illuminates when the signal is strongest
- 1W output for MOH to telephone systems
- Line-level output for background music to paging systems
- Connects to a variety of telephone and paging systems including self-amplified speaker systems
- Built-in monitor speaker makes tuning easy
- Telescoping antenna built-in or connect to an external antenna
- Volume and tone controls
- Wall-mountable

Power Requirements:	12V or 24V DC power supply (not included)
Dimensions:	3-3/8" W x 6" H x 1-1/2" D
Product Weight:	1 lb.

Commercial Sound Use

The FMR is an advanced commercial music source. It may be housed in a compact and familiar package, but this is no simple transistor radio. It has two types of outputs. The line output is designed to interface with any AUX input, and the 1-watt output has enough power to supply even older telephone systems' music-on-hold inputs. They both have level controls so you can use them simultaneously. The FMR also has a tone control to further shape the sound.

Another feature that makes the FMR unique is its external antenna connections. The built-in telescoping antenna is convenient, but radio signals don't penetrate very far into most industrial buildings. Connect the FMR's external antenna terminals to a roof antenna or RF distribution feed for crystal-clear reception.

Accessories

PRS40C
Power Supply
(12V DC)



MICROPHONES

Bogen's microphone line includes a variety of types and styles *(handheld, wireless handheld/lavaliere, desktop, gooseneck, boundary, and overhead hanging)* to meet your application needs, from paging systems to instrument and vocal reproduction. These microphones provide clear, natural, intelligible sound reproduction with accurate response and dependable performance.

WIRELESS SYSTEMS

UHF Wireless Microphone Systems

UDMS16HH, UDMS16BP

These **Wireless Microphone Systems** offer users the freedom to move around while speaking. System choices consist of a 16-channel PLL-synthesized UHF Receiver with either a handheld microphone or lavaliere microphone and body-pack transmitter.

UHT16 Handheld Microphone

- Sleek metal housing with internal antenna for optimum aesthetics and durable long life
- Uni-directional neodymium dynamic cartridge for optimum sound, maximum feedback rejection, and minimal handling noise
- Audio mute switch allows convenient audio muting while leaving the transmitter "ON"
- LED indicator: Unit "ON", and "Low Battery Alert"
- Convenient, economical operation with AA alkaline or NiMH batteries (2x)
- Mic clip available (model MC28)
- 2" dia. x 9-1/8" long; 10 oz.

UBP16 Body-Pack w/Lavaliere Microphone

- Audio mute switch allows convenient audio muting while leaving the transmitter "ON"
- LED indicator: Unit "ON", and "Low Battery Alert"
- Locking 3.5mm mini-jack provides secure connection for removable microphone
- Convenient, economical operation with AAA alkaline or NiMH batteries (2x)
- 2-1/4" W x 3-3/8" H x 1-1/8" D; 3 oz.

UDR16 16-Channel PLL-Synthesized UHF Receiver

- Offers 16 user-selectable frequencies in UHF 470-510 MHz band; 120 dB dynamic range; operation up to 500 feet line-of-sight
- DigiTRU Diversity™ for maximum range and dropout protection, full LED indicators, 1/4" unbalanced and XLR balanced outputs, Tone Squelch™ for locking out potential interference, noiseless transmitter ON/OFF switching, and level control for unbalanced output
- Half-rack receiver design with front panel dual antennas, powered by wall power adapter
- 8-1/8" W x 1-7/8" H x 5-1/2" D; 1 lb.

UDMS16HH
includes:
- UHT16 Handheld Mic
- UDR16 UHF Receiver



UDR16

UHT16

UDMS16BP
includes:
- UBP16 Body-Pack & Lavaliere Mic
- UDR16 UHF Receiver



UBP16

UDR16

Accessories



BCHM
Headset Microphone



NEW!

RPK89
Rack Mount
(Single Unit)



RPK90
Rack Mount
(Double Unit)

DESKTOPS



DDU250

Dynamic Desktop Microphone

The **DDU250** is a high-quality, dynamic, gooseneck desktop microphone ideal for any PA system. The gooseneck permits the user to adjust the microphone's angle and height to suit the user's needs. *4-1/4" W x 18-1/4" H x 6-1/4" D; 3.5 lb.*

- Cardioid pickup pattern
- Push-to-lock and push-to-talk switches
- Excellent speech intelligibility with low ambient noise
- Effective feedback control
- 16" long, fully flexible gooseneck stalk shock-mounted to a heavy zinc die cast base
- 10-ft. cable with external contact closure outputs for the talk switches
- 500-ohm Impedance
- Frequency response range of 100 Hz - 12 kHz
- Sensitivity of -76 dB +/- 3 dB



MBS1000A

Desktop Paging Microphone

The **MBS1000A** is a dynamic, dual-impedance, desktop microphone designed for all industrial and commercial public address and paging applications. *4-3/8" W x 9-3/8" H x 5-7/8" D; 1.25 lb.*

- Cardioid pickup pattern
- Locking mechanism with push-to-talk bar for long announcements
- Push-to-talk or lift-to-talk operation
- Impedance: Hi-Z, 50k ohms; Lo-Z, 500 ohms
- Frequency response range of 45 Hz - 15 kHz
- Sensitivity: Lo-Z: -72 dB +/- 3 dB; Hi-Z: -52 dB +/- 3 dB
- Rubberized black finish with die cast base
- 4-conductor, 2-shielded cable included

MICROPHONES

HANDHELDS



HDU250

Professional Handheld Stage Microphone

The **HDU250** is a dynamic microphone ideal for acoustically demanding environments. It features a heavy zinc die cast case with a rigid, low noise cable-mount system and a lockable silent reed switch. *7" D x 2" dia.; 1 lb.*

- Cardioid pickup pattern
- High-output design with excellent gain before feedback characteristics
- High sound pressure capability without distortion
- Low sensitivity to breath/pop noise
- Efficient shock-mount system prevents handling and transmission noise
- High sensitivity Neodymium capsule
- 250-ohm Low-impedance
- Frequency response range of 50 Hz - 18 kHz
- Sensitivity of -72 dB +/- 3 dB
- Integral multi-layer breath/wind filter; includes mic clip
- Rubberized black finish; rugged, reliable construction

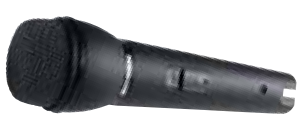


HDU150

Handheld Stage Microphone

The **HDU150** is an attractive, dynamic, all-purpose microphone ideally suited for a wide variety of vocal and sound reinforcement applications. *6-1/2" D x 1-1/2" dia.; 1 lb.*

- Cardioid pickup pattern
- Wide dynamic range with high-end sparkle and minimum feedback
- Low sensitivity to breath and popping sounds
- Lockable, silent on/off reed switch
- 500-ohm Impedance
- Frequency response range of 70 Hz - 15 kHz
- Sensitivity of -70 dB +/- 3 dB
- Rubber shock-mount system for attenuation of handling & cable noise
- Rigid, low-noise cable-mount system
- Rubberized black finish; durable ball-shaped design; includes mic clip



HDO100

Handheld Public Address Microphone

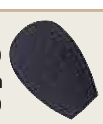
The **HDO100** is an attractive, dynamic microphone perfectly suited for public address applications and instrument sound reproduction. *6-1/2" D x 1-1/2" dia.; 1 lb.*

- Omni-directional pickup pattern
- Clean, clear reproduction with minimal ambient sound
- Low sensitivity to handling noise and stage vibrations
- Lockable, silent on/off reed switch
- 500-ohm Impedance
- Frequency response range of 70 Hz - 15 kHz
- Sensitivity of -72 dB +/- 3 dB
- Internal rubber shock isolation system
- Rugged, reliable construction; includes mic clip
- Rubberized black finish

Accessories

More Microphone Accessories on Page 60

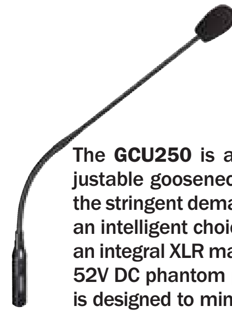
WSGCU250
Mic Windscreen
(for GCU250)



MC27
Mic Clip
(for HD Handhelds)



GOOSENECKS



GCU250

Condenser Gooseneck Microphone

The **GCU250** is a high-performance, partially rigid, 15-¼" adjustable gooseneck condenser microphone capable of meeting the stringent demands of today's conference and PA systems. It is an intelligent choice for sound reinforcement applications. It has an integral XLR male connector mounting base and requires a 9V-52V DC phantom power source. Slim and compact, the GCU250 is designed to minimize intrusion between the user and the audience. *18-1/4" L x 3/4" dia.; 4 ounces.*

- Cardioid pickup pattern
- Clean, accurate vocal reproduction with low ambient noise
- Integral breath/wind filter
- 250-ohm Impedance
- Frequency response range of 50 Hz - 18 kHz
- Sensitivity of -65 dB +/- 3 dB
- Snap-on windscreen
- Durable all-metal case with non-glare black finish



GDU150

Dynamic Gooseneck Microphone

The **GDU150** is a dynamic, gooseneck microphone that features a durable all-metal case with a non-glare black finish. It has a 10-1/4" long, fully flexible neck with an integral XLR mounting base. *17" L x 1-1/4" dia.; 1 lb.*

- Cardioid pickup pattern
- Outstanding speech intelligibility, feedback rejection, and user sound isolation
- High sound pressure capability and low sensitivity to breath/pop noise
- Superior shock-mount system to reject handling and transmission noise
- Integral multi-layer breath/wind filter
- 500-ohm Impedance
- Frequency response range of 100 Hz - 12 kHz
- Sensitivity of -75 dB +/- 3 dB
- Silent push-on/push-off talk switch on base
- Rugged, reliable construction



MGN19

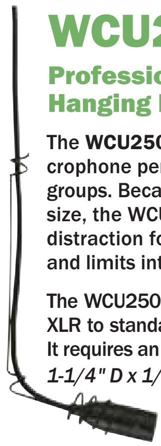
Industrial Gooseneck Microphone

The **MGN19** is a dynamic, push-button activated microphone designed for all industrial and commercial public address and paging applications. *23-1/2" L x 1-1/4" dia.; 1.25 lb.*

- Omni-directional pickup pattern
- Rugged, reliable design for quality, long-term use under strenuous handling conditions
- 400-ohm Impedance
- Frequency response range of 50 Hz - 12 kHz, w/ 2 kHz boost
- Sensitivity of -76 dB +/- 3 dB
- Push-to-talk switch on MIC housing
- Chrome-plated screen & gooseneck with black Cycolac® housing
- 4-conductor, 2-shielded cable included
- 19" flexible neck with mounting flange

MICROPHONES

OVERHEAD



WCU250

Professional Overhead Hanging Microphone

The **WCU250** is a back electret condenser, professional microphone perfectly suited for picking up audio from large groups. Because it can hang from the ceiling and is compact in size, the WCU250 is very useful in minimizing visual distraction for the performers and the audience alike, and limits intrusion into the working space.

The WCU250 cable is terminated by a mini-XLR (female). A mini-XLR to standard XLR adapter (included) houses the pre-amplifier. It requires an external 9V - 52V DC phantom power supply. *1-1/4" D x 1/2" dia.; 5 ounces.*

- Cardioid pickup pattern
- Clear, crisp sound with outstanding ambient noise isolation
- Utilizes a superior-quality, state-of-the-art transducer element and circuitry
- Transformerless, direct-coupled design to ensure clear, transparent reproduction of even the most delicate transients at the highest output levels
- Phantom power operated
- 250-ohm Impedance
- Frequency response range of 50 Hz - 18 kHz
- Sensitivity of -65 dB +/- 3 dB
- Integrated metal hanger; matte black finish; 20-ft. cable included
- Stainless steel, adjustable black hanger

BOUNDARY



SCU250

Professional Boundary Microphone

The **SCU250** is an unobtrusive, surface-mount, boundary, condenser microphone ideal for meeting rooms, conferences, and stage productions where minimum visibility is ideal. It requires an external 9V - 52V DC phantom power supply. *2-3/4" W x 3/4" H x 3-1/4" D; 1 lb.*

- Cardioid pickup pattern
- Full, rich reproduction of voice and music
- Low sensitivity to stage vibration and thumping noise
- Well-suited in capturing the sound source and immediate surroundings
- Excellent user sound isolation with excellent feedback rejection
- Phantom power operated
- 250-ohm Impedance
- Frequency response range of 20 Hz - 18 kHz
- Sensitivity of -58 dB +/- 3 dB
- Low-impedance balanced output
- Mounting keyways for hanging or for secure attachment to the mounting surface
- Heavy-duty metal case; matte black finish
- Outputs for interfacing with auxiliary equipment

MICROPHONE ACCESSORIES *(other accessories listed on page 59)*

STANDS

SF4 - Floor Stand
- 34" to 62" adjustable height
- Round 10" diameter die cast base, 9 lb.
- Grip-action clutch and chrome-plated tubing

SB6 - Floor Boom Stand
- Telescopic floor stand
- Sliding 30" boom arm
- 34" to 62" adjustable height, 6 lb.
- Chrome-plated tubing
- Tripod base

DS3 - Desk Stand
- 3" chrome-finish tube
- 6" cast iron base, 3 lb.



MOUNTS



MFM - Flange Mount
- For use with models GCU250 & GDU150
- 3-pin female XLR connector, non-shock-isolated
- *3-1/4"* H x *1-3/4"* dia. base, 3 ounces

MSM - Shock-Isolated Microphone Base
- For use with models GCU250 & GDU150
- Provides superior mechanical noise and vibration handling
- Lightweight ABS material housing
- XLR (female) connector
- Thick, shock-absorbing rubber cushion
- *4-3/4" W x 1-3/4" H x 4" D*; 6 ounces



CABLES



XLR25 - Microphone Cable
- For use with models HDU250, HDU150, & HDO100
- 25' cable; Male XLR to female XLR, 2-conductor plus shield

MAC - Microphone Cable Assembly
- For use with models HDU250, HDU150, & HDO100
- 25' cable; Female XLR to stripped and tinned wires, 2-conductor plus shield

